

PROKOF'YEV, N.

AID P - 293

Subject : USSR/Engineering

Card : 1/1

Author : Prokof'yev, N.

Title : Useless apparatus

Periodical : Neft. Khoz., v. 32, #4, 85, Ap 1954

Abstract : The author presents a critical comment on B. Frenkel's article "Automatic Indicator Arrangement for the Observation of the Level of Petroleum Products in a Vessel under Pressure" published in Novosty Neftyanoy Tekhniki, No. 3, 1953. The author also outlines the unsatisfactory operation of the apparatus described by Frenkel.

Institution : None

Submitted : No date

FROKOF'YEV, N. I.

Lumber - Transportation

Making up lake floats by means of winches TL-3. Les. prom. 11 no. 7, 1951.

9. Monthly List of Russian Accessions, Library of Congress, December, 1952¹⁹⁵³, Unclassified.

PROKOF'YEV, N.N., kand.med.nauk

General principles of outpatient surgery. Vest. khir. 93
no.12:107-111 D '64. (MIRA 18:5)

PROKOF'YEV, Nikolay Mikhaylovich; BUTIKASHVILI, Shota Iosifovich;
KRYUCHKOV, A.M., red.; FREGER, D.P., red. izd-va; BELOGUROVA,
I.A., tekhn. red.

[Quality and dimension control in woodwork] Kontrol' kachestva i
razmerov v derevoobrabotke; stenogramma lektsii, prochitannaia
v LDNTP dlia brakerov i kontrolerov OTK derevoobrabatyvaiushchikh
predpriiatii. Leningrad, Leningr. dom nauchno-tekhn. propagandy,
1962. 59 p. (MIRA 15:12)
(Woodworking industries--Quality control)

PROKOF'YEV, Nikolay Mikhaylovich; MIKHAYLOV, A.N., dots., kand.
tekhn. nauk retsenzent; BRUK, S.I., dots., kand. tekhn.
nauk, retsenzent; NEKHAMKIN, M.O., dots., kand. tekhn.
nauk, otv.red.; ANPILOGOV, A.V., red.

[Fundamentals of the standardization of the technological processes of mechanical wood processing; technology of the production of articles from wood (for students of the Faculty of the Mechanical Technology of Wood)] Osnovy tipizatsii tekhnologicheskikh protsessov mekhanicheskoi obrabotki drevesiny; tekhnologiya izvodstva izdelii iz drevesiny (dlya studentov fakul'teta mekhanicheskoi tekhnologii drevesiny). Lektsiia. Leningrad, Vses. zaochnyi lesotekhn. in-t, 1964. 56 p. (MIRA 1E:3)

PROKOF'YEV. Nikolay Milkayevich RODIONOV, S.V., prof., ratsenzent:
NEKHAMKIN, N.O., dots., kand. tekhn. nauk, otv. red.;
ANPILOGOV, A.V., red.

[Mechanical processing of stock wood; textbook for advanced courses for graduate engineers and students of the Faculty of the Mechanical Technology of Wood] Mekhanicheskaiia obrabotka zagotovok; uchebnoe poschcie dlja kursov povyshenija kvalifikatsii diplomirovannykh inzhenerov i studentov fakulteta mekhanicheskoi tekhnologii drevesiny. Leningrad, Vses. zaochnyi lesotekhn. in-t, 1964. 55 p. (MIRA 18:5)

PROKOF'YEV, Nikolay Mikhaylovich; BUTIKASHVILI, Shota Iosifovich;
GOLUBEVA, T.M., inzh., red.; FREGER, D.P., red.izd-va;
BELOGUROVA, I.A., tekhn. red.

[Overall mechanization of the lumbering section; experience of
the Leningrad Lumbering and Woodworking Combine named after
Kalinin] Kompleksnaia mekhanizatsia lesopil'nogo tsekha; opyt
raboty LLDK im. Kalinina. Leningrad, 1961. 23 p. (Leningrad-
skii Dom nauchno-tehnicheskoi propagandy. Obmen peredovym
opytom. Seriya: Derevoobrabatyvaiushchaya promyshlennost', no.9)

(Leningrad—Woodworking industries) (Lumbering—Machinery)
(MIRA 15:3)

PROKOF'YEV, Nikolay Nikolayevich; GALKIN, V.V., red.; SHEVCHENKO, F.Ya.,
tekhn.red.

[Summary principles of emergency surgical diagnosis] Kratkie
osnovy neotlozhnoi khirurgicheskoi diagnostiki. Izd.3., ispr. i
dop. Petrozavodsk, Gos.izd-vo med.lit-ry, 1959. 246 p.

(DIAGNOSIS, SURGICAL)

(MIRA 13:5)

PROKOF'YEV, N.N.

N.N. Prokof'yev, Kratkiye osnovy neotlozhnoy khirurgicheskoy diagnostiki
/ Short Principles of Emergency Surgical Diagnosis / Library of the Practicing
Physician), second edition, Medgiz, 10 sheets. - 1950

Enumerates the symptoms of acute diseases of the organs of the abdominal
cavity ("acute belly") and describes the methodology of examination in these
diseases. Prevents methodology of examination in gunshot and non-gunshot
injuries to the systems and organs of the body.
Intended for surgeons and district doctors.

SO: U-6472, 15 Nov 1954

PROKOF'YEV, N.N.

PROKOF'YEV, N.N. (Leningrad, Liteyny pr., d.28, kv.18)

Palliative operations in pancreatic tumors; preliminary report.
(MIRA 8:4)
Vest.khir. 75 no.1:23-26 Ja-F '55.

1. Iz l-y khirurgicheskoy kliniki (zav. prof. N.N.Petrov) Gosudar-
stvennogo ordena Lenina Instituta usovershenstvovaniya vrachey im.
S.M.Kirova.

(PANCREAS, neoplasms,
palliative operations)

L 50188-65 JKT
AM5014766

BOOK EXPLOITATION

UR/ 9

B+1

Prokop'yev, Nikifor Petrovich

On war and the army; a short essay (O voynе i armii; kratkiy ocherk).
Moscow, Voenizdat M-va obor. SSSR 1965. 293 p. 13000 copies
printed.

TOPIC TAGS: aggression, armed force, defense, Marxism-Leninism,
military science, politics, Soviet military science, war

PURPOSE AND COVERAGE: This book is intended for young officers
studying the Marxist-Leninist theory of war and the army. The
book deals with the fundamental problems in that theory, with the
origin, nature and types of war, with the social character and
purpose of the army, with Soviet military science, and with the
politically and ideologically "aggressive nature of modern im-
perialism." All these problems are examined taking into account
the changes and the military revolution

Soviet Armed Forces. No references are found in the text.
Card 1/3

L 50188-65
AM5014766

TABLE OF CONTENTS [Abridged]:

- Ch. I. Marxist-Leninist ideas on the origin and class nature of wars -- 3
- Ch. II. Character and types of wars in modern times -- 40
- Ch. III. Social nature and purpose of the army -- 81
- Ch. IV. Marxist-Leninist opinions on the defense of the socialist fatherland -- 113
- Ch. V. Reactionary aggressive nature of modern imperialist military politics and ideology -- 154
- Ch. VI. On Soviet military science -- 189
- Ch. VII. Communist party guidance of the armed forces, main foundation of Soviet military construction -- 252

L 50188-65

AM5014766

AVAILABLE: Library of Congress.

SUB CODE: MS

SUBMITTED: 25Jan65

NO REF Sov: 141

OTHER: 007

me
Card 3/3

PROKOF'YEV, N.P., inzh.

Experience in the installation of 67-2-SP boilers at the Kharkov
Electric Power Station. Energ. stroi. no.1:48-52 '59.
(MIRA 13:2)

1.Trest "Donbassenergomontazh".
(Kharkov--Electric power plants) (Boilers)

PROKOF'YEV, N. S.

Cand Tech Sci - (diss) "Loosening up of cotton as a principal means of decreasing non-uniformities in cloth." Leningrad, 1961. 20 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Textile Inst imeni S. M. Kirov); 200 copies; free; (KL, 10-61 sup, 217)

PROKOF'YEV, N.S.

Economic efficiency of using nuclear radiations in the production
and treatment of farm produce. Atom. energ. 19 no.3:282-286
S '65.
(MIRA 18:9)

Mikheyev, Grigoriy Fedorovich

27
B+1

Economic effectiveness of the use of radioactive radiation and isotopes in the national economy of the U.S.S.R. (Ekonomicheskaya effektivnost' ispol'sovaniya radioaktivnykh izlucheniy i izotopov v narodnom khozyaystve SSSR) Moscow, Atomizdat, 1964. 223 p. illus., bibliog. 1600 copies printed. (At head of title: Akademiya nauk SSSR. Institut ekonomiki) Editor: Yu. S. Troshkin; Technical editor: Ye. I. Mazel'; Proofreader: G. D. Shishkova.

TOPIC TAGS: agriculture, biochemistry, atomic energy, economics, nuclear geo-physics, nuclear geochemistry, radioactive isotopes, production process

PURPOSE AND COVERAGE: This is one of the first studies of the Institute of Economics of the Academy of Sciences of the U.S.S.R. on determining the actual economic effectiveness of utilizing atomic energy in industry and in agriculture for interaction with materials and processes, control and regulation of production processes, and improvement in technical and biochemical processes. Chapter V was written by N. A. Pechaliman and contains material on the application of radio-

Card 1/8

L 42279-65
AM5006607

author expresses his gratitude to T. S. Khachaturov, G. D. Bakulev, and K. L. Klimenko. The following staff members of the Institute of Economics helped in preparing the materials utilized in the monograph: S. V. Belova, K. P. Kedrova,

N. N. Kuznetsova, V. A. Makarov, and S. S. Komashkova.

TABLE OF CONTENTS:

Foreword -- 3
Introduction -- 5
Ch. I. Fundamentals of the methodology of determining the economic effectiveness of atomic energy -- 16
Ch. II. Automation of the control and regulation of production processes -- 43
Ch. III. Improvement in technical processes and structures -- 92
Ch. IV. Interaction of nuclear radiation and a material -- 122
Ch. V. Methods of nuclear geophysics and geochemistry in the case of prospecting for and developing mineral deposits -- 141
Ch. VI. Economic aspects of the utilisation of radioactive radiation and isotopes in the national economy -- 188
Appendices -- 202

Card 2/3

Submitted: 17 Oct 64

L 9881-66 EWT(m) DIAAP DM
ACC NR: AP6003962

SOURCE CODE: UR/0089/65/019/003/0282/0286

AUTHOR: Prokof'yev, N. S.

32
E

ORG: none

TITLE: Economic efficiency of nuclear radiation in production and processing of agricultural products

19,55

SOURCE: Atomnaya energiya, v. 19, no. 3, 1965, 282-286

TOPIC TAGS: gamma ray, nuclear physics apparatus, agriculture, graphic technique, economics, isotope

ABSTRACT: A graph-analysis method of determining the economic efficiency of gamma isotope devices intended for use in the production and processing of agricultural products is described. The efficiency and expediency of the use of ionizing radiation in agriculture is shown for concrete examples, and recommendations are given for the optimal parameters of the devices for production goals. Orig. art. has: 3 figures and 9 formulas. NA

SUB CODE: 02, 18 / SUBM DATE: 15Jul64 / ORIG REF: 006

UDC: 338.539.12.03

Bob
Cord 1/1

ARKHIPOV, V.V.; LUR'YE, I.S.; PROKOF'YEV, N.S.; KHRUSHCHEV, V.G.

Prospects for the use of radiation sterilization in veterinary
medicine. Veterinariia 42 no.12:82-84 D '65. (MIRA 19:1)

PROKOF'yEV, N.S.

~~CONFIDENTIAL~~ (C)

CLASSIFICATION INFORMATION: SECY/NSC

USSR-Uzbekskaya konferentsiya po voprosam fizicheskogo i radioaktivnogo zaryazhenniya
energii. Tashkent, 1959.

After Transactions of the Tashkent Conference, on the Physics and Radioactive Energy of Atomic Energy, V. A. Kostylev, Editor in Chief, p. 6.
S. I. Sudaev, editor, 1959, (series printed).

Distributing Agency: Akademiya nauk Uzbekskoy SSR.

Reцензия на Ed.: S. V. Stavrovtsev, Academician, Academy of Sciences Uzbek SSR; M. I. Slobodkin, Doctor A. I. Shchegoleva, Doctor of Physic and Mathematics; D. G. Shchegoleva, Doctor of Physic and Mathematics; L. V. Slobodkin, Corresponding Academician, Academy of Sciences Uzbek SSR; A. A. Lepeshkin, Candidate of Medical Sciences; V. N. Ivanov, Candidate of Medical Sciences; V. N. Ivanov, Candidate of Physics and Mathematics, Candidate of Medical Sciences; D. V. Ivanov, Candidate of Chemical Sciences; A. S. Sadykov, Corresponding Member, Academy of Sciences USSR, Academician, Academy of Sciences Uzbek SSR; Yu. N. Tikhonov;

~~TOP SECRET~~

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Transactions of the Tashkent (Cont.)

SOV/5410

Candidate of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Babakhanova.

PURPOSE : The publication is intended for scientific workers and specialists employed in enterprises where radioactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of nuclear radiation, including: production and chemical analysis of radioactive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; radioactive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

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- Transactions of the Tashkent (Cont.) SOV/5410
Instruments used, such as automatic regulators, flowmeters, level gauges, and high-sensitivity gamma-relays, are described. No personalities are mentioned. References follow individual articles.

TABLE OF CONTENTS:

RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION
IN ENGINEERING AND GEOLOGY

Lobanov, Ye. M. [Institut yadernoy fiziki UzSSR - Institute of Nuclear Physics AS UzSSR]. Application of Radioactive Isotopes and Nuclear Radiation in Uzbekistan 7

Taksar, I. M., and V. A. Yanushkovskiy [Institut fiziki AN Latv SSR - Institute of Physics AS Latvian SSR]. Problems of the Typification of Automatic-Control Apparatus Based on the Use of Radioactive Isotopes 9

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- 17
- Transactions of the Tashkent (Cont.) SOV/5410
 - Khrushchev, V. G., A. S. Lepilin, U. Ya. Margulis, S. M. Stepanov, L. I. Belen'kiy, T. V. Bromberg, and V. G. Ivliyev. [Ministry of Health USSR]. Industrial Gamma-Plant for Sterilization of Medical Materials 170
 - Khrushchev, V. G., B. A. Rubin, L. V. Metlitskiy, A. I. Rytov, N. M. Gayzin, U. Ya. Margulis, V. S. Grammatikati, V. G. Vlasov, and A. V. Petrov [Ministry of Health USSR]. Gamma-Plant for Continuous Irradiation of Potatoes 182
 - Prckof'yev, N. S. [Institut ekonomiki AN SSSR - Institute of Economics AS USSR]. Economic Efficiency of the Use of High-Capacity Gamma-Plants in the Light and Food Industry 192
 - Abdullayev, A. A., Ye. M. Lobanov, A. P. Novikov, and A. A. Khaydarov [Institute of Nuclear Physics AS UzSSR]. Use of a Multichannel Scintillation Gamma-Spectrometer for the Analysis of Rock Specimens 199

Card 10/20

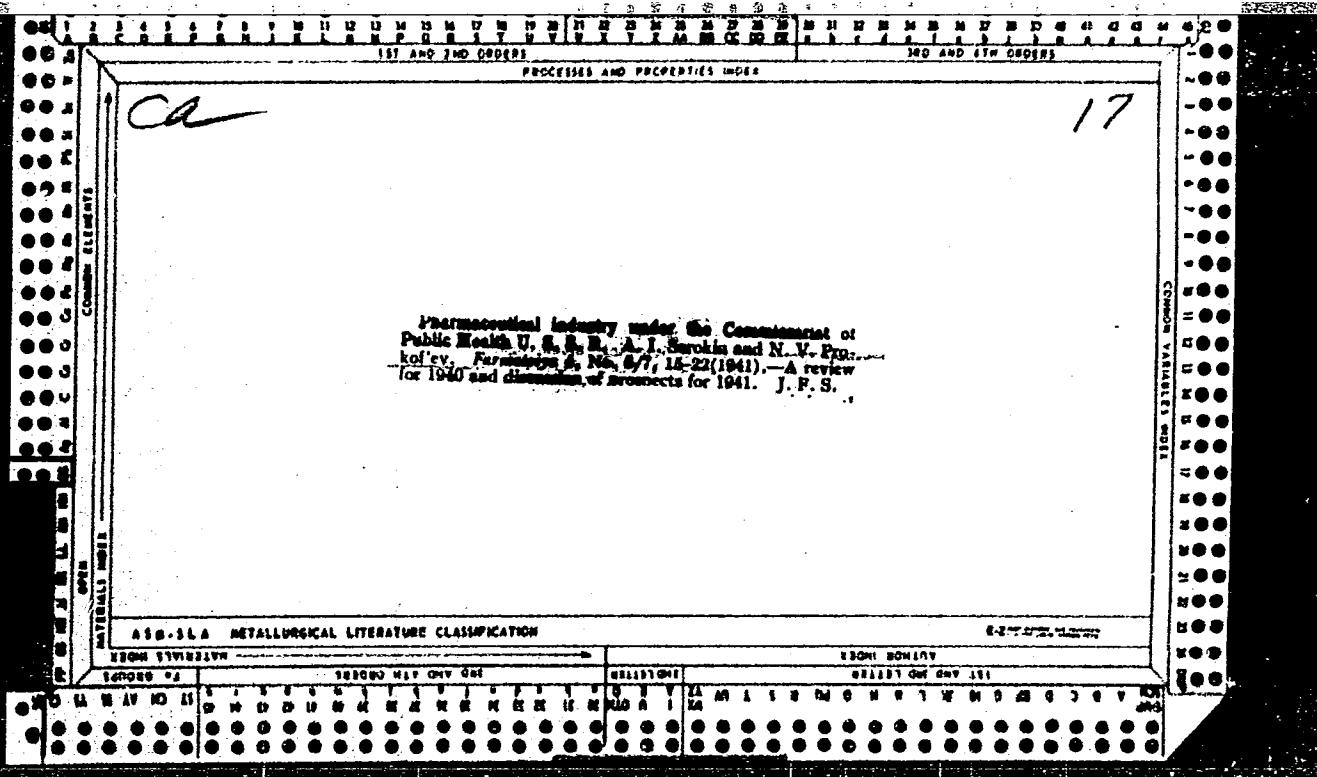
PROKOF'YEV, N.T.

Signalling control equipment for ventilators. Rats. i izobr. predl.
v stroi. no.7:102-105 '58. (MIRA 11:12)
(Ventilation)

PROKOF'YEV, N.V., inzh.

Assembling high and heavy apparatus. Mont.i spets.rab.v stroi. 22
no.6:18-20 Je '60. (MIRA 13:7)

1. Montazhnoye upravleniye No.5 tresta Neftekhimmontazh.
(Petroleum refineries--Equipment and supplies)



PROKOF'YEV N. V.

PA 44/49T59

USSR/Medicine - Drugs, Injections Jan/Feb 49
Medicine - Extract of Sporini, Effects

"Manufacture of Liquid Extract of Sporini
(Ergotin) in Ampoules for Injections," N. V.
Prokof'yev, S. D. Shapiro, 1 $\frac{1}{4}$ pp

"Med Prom SSSR" No 1

Describes difficulties of Moscow Chemicophar
Factory No 9 in manufacturing subject ampoules.
Explains method devised to overcome these
difficulties.

FDB

44/49T59

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001343210010-6

PROKOF'YEV, O.N. (Alma-Ata)

In Kazakhstan. Zashch. rast. ot vred. i bol. 9 no.8;39-
40 '64.
(MIRA 17:12)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001343210010-6"

PROKOF'YEV, O. N.

Turbulent diffusion problem for an instantaneous admixture,
SMTF no. 6.122-123 M.D. '63. (MIRA 1797)

KULESHOVA, A.V.; PROKOF'YEV, O.N.

Practices in controlling quarantine weeds. Zashch. rast. ot vred.
i bol. 6 no.7:50 Jl '61. (MIRA 16:5)

1. Direktor Kazakhskoy karantinnoy laboratorii (for Kuleshova).
2. Starshiy agronom-toksikolog Kazakhskoy karantinnoy laboratorii
(for Kuleshova).

(Alma-Ata Province—Weed control)
(Alma-Ata Province--Ragweed)

KAZMENKO, Vadim Dmitriyevich, *Prinimal uchastiye MAKSIMOV, V.I.*;
ALEKSEYEV, G.M., retsenzenti *PROKOF'YEV, O.P.*, ed.;
KHACHATUROV, V.V., red. izd-va; LAVRENOVA, N.B., tekhn. red.

[Seamanship for marine engineers] Morskaia praktika dlia inzhenera-sudovoditelia. Moskva, Izd-vo "Morskoi transport," 1962. 169 p.
(MIRA 15:5)

(Seamanship)

MAKSIMOV, Vitaliy Ivanovich; NOVIKOV, Aleksandr Alekseyevich;
PROKOF'YEV, Oleg Pavlovich; TARGHIY, Yu.S., red.

[Special-purpose underwater fleet; means of mastering the
ocean depths] Podvodnyi flot spetsial'nogo naznacheniia;
sredstva osvoeniiia morskikh glubin. Moskva, Voenizdat,
1965. 103 p. (MIRA 18:6)

PROKOF'YEV, P.

Rubber rollers for cable support. Mast. ngl. 7 no. 6:17 Je '58.
(MIRA 11:7)

1. Starshiy inzhener tekhnicheskogo otdela tresta Snezhnyyanantratsit.
(Mine haulage--Equipment and supplies)

PROKOF'YEV, P.

Single-barrel winch. Mast.ugl. 7 no.4:22-23 Ap '58. (MIRA 11:4)

1. Starshiy inzhener tekhnicheskogo otdela tresta Snejhnyyanantratsit.
(Winches)

PROKOF'YEV, P., inzhener.

Cutting-off disk on the "Donbass" cutter-loader. Mast. ugl. 3 no.6:
20 Je '54. (MLRA 7:?)
(Coal mining machinery)

PROKOF'YEV, P., inzhener.

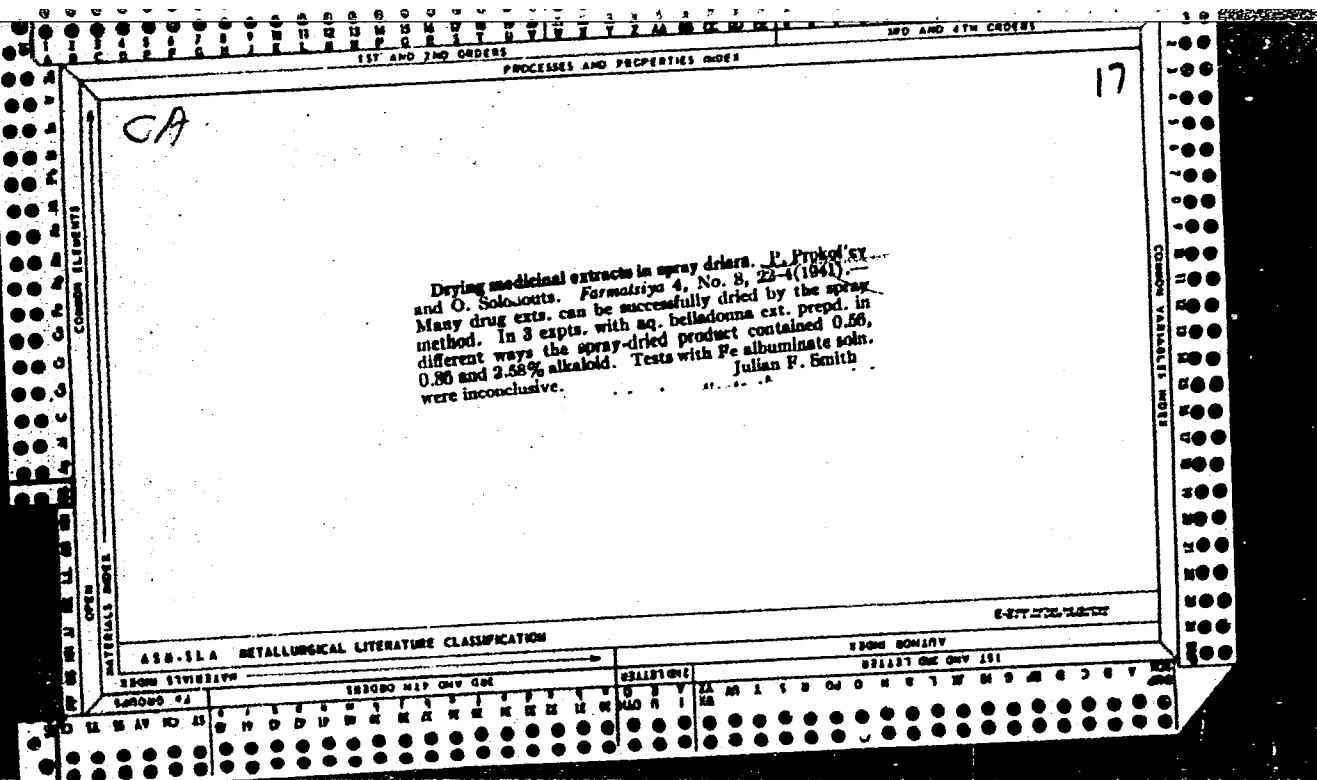
Harrow-range unit. Mast. ugl. 6 no.1:5-6 Ja '57. (MIRA 10:4)
(Coal mining machinery)

PROKOF'YEV, P. inzhener; CHUDNYY, P. inzhener

The mechanizers' constructive initiative. Mast. ugl. 3 no.12:
13-14 D '54.
(MLRA 8:6)
(Donets Basin--Coal mines and mining)

PROKOF'YEV, P., inzhener.

Magnetic starters on travelling cars. Mast. ugl. no.10:14-15
O '55. (Mine haulage) (MLRA 9:1)



PROKOF'EV, P.

Vnedrit' peredovuiu tekhnologiu i mekhanizatsiiu tekushchego soderzhaniiia puti.
To introduce advanced techniques and mechanization of the routine maintenance
of tracks/. (Zhel-dor.transport, 1948, no. 5, p. 67-77, diagrs.)

DLC: HE7.25

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress
Reference Department, Washington, 1952, Unclassified.

~~PROKOFIEV D~~

Helicopters used in battling forest fires. Pozh.delo 3 no.8:15
Ag '57. (MLRA 10:8)
(Forest fires) (Helicopters)

OSIS, N.; PROKOF'YEV, P.

Homogenous constant magnetic field of β -spectograph. Vestis Latv
ak no. 9:85-92 '60. (EEAI 10:9)

(Magnetic fields) (Spectrum analysis)

CHERNYSHEV, M.A., kand.tekhn.nauk; SHAKHUNYANTS, G.M., prof., doktor
tekhn.nauk; KOVALEVSKIY, D.V., inzh.; POTOTSKIY, G.I., inzh.;
PROKOF'YEV, P.F., inzh.; GOLOVANOV, A.L., red.; KANDYKIN, A.Ye.,
tekhn.red.

[Progressive technology of railroad track work] Perekovaisa
tekhnologija putesykh rabot. Moskva, Gos.transp.zhel-dor.izd-vo,
1951. 106 p.
(MIRA 12:3)

1. Glavnnyy inzhener Glavnogo upravleniya putevogo khozyaystva
Ministerstva putey soobshcheniya (for Chernyshev).
(Railroads---Track)

PROKOFIEV, P.

Who is responsible for this? Fin.SSSR 37 no.2:66-67 F '63.
(MIRA 16:2)

1. Nachal'nik otdela L'vovskogo oblastnogo finansovogo otdela.
(Lvov Province—Manufactures—Finance)
(Lvov Province—Shipment of goods)

PROKOF'YEV, P.F., inzh., otv. za vypusk; NEKLEPAYEVA, Z.A., inzh.,
red.; USENKO, L.A., tekhn. red.

[Technological processes in the operations of track running
repair and raising] Tekhnologicheskie protsessy proizvodstva
rabot po srednemu i podzemochnomu remontu puti. Moskva,
Transzheldorizdat, 1962. 311 p. (MIRA 16:6)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye puti i so-
oruzheniy. (Railroads--Track)

ACC NR: AP6033825

SOURCE CODE: UR/0256/66/000/010/0056/0057

AUTHOR: Prokof'yev, P. I. (Lieutenant colonel)

ORG: none

TITLE: Gunnery trainer

SOURCE: Vestnik protivovozdushnoy oborony, no. 10, 1966, 56-57

TOPIC TAGS: gunnery trainer, radar guidance, target tracking

ABSTRACT: A gunnery trainer for pilots to practice radar aiming and the use of aircraft armament for intercepting a target at the moment it appears on the radar screen is described and a diagram is given. Tactical technical data (detection range, tracking) is programmed according to the type of aircraft this trainer will simulate. It is capable of identifying the target (friend or foe), and of determining the type of interception to use (by overtaking or by deceleration), the flight characteristics of the target (straight or maneuvering), the required speed of approach or delay, the distance to the target, and different ways of rocket firing. It consists of a flat stand with a view simulating the cockpit's position in flight. At the lower left side is located a control panel with switches and signals lights. All equipment controlling aiming and armament, as well as the control stick, is operational. Orig. art. has: 1 figure.

SUB CODE: 15, 19, 17/ SUBM DATE: none

Card 1/1

KARAMYAN, A.S. [deceased]; PROKOF'YEV, P.T.

Magnetic gamma spectrometer with an annular field. Izm.tekh. no.3:
39-41 Mr '60. (MIRA 13:6)
(Spectrometer)

8/0048/64/028/003/0262/0267
S/0048/64/028/003/0262/0267

R. AP4024048
Balodis, M.K.; Bondarenko, V.A.; Prokof'yev, P.T.
beta spectrograph for capture [Report, 1964]
of internal Annual Conference electrons emitted
to 22 Feb. 1964, 262-267
from neutron capture 14 to 14 thermal neutron cap-
ture spectrum in Tbilisi 14 Izhichevskaya, V.Z.,
Rota thermal neutron capture [Report, 1964]
ant to hold in Tbilisi. Series Izhevskaya, V.Z.,
microscopy, investigation conversion electron spectrometer,
AN SSSR. Izhichevskaya, V.Z., conversion electron spectrometer,
topic RGS; β -spectrograph, conversion of the γ -rays emitted from the thermal
source: AN SSSR. Izhichevskaya, V.Z., conversion electron spectrometer,
topic RGS; β -spectrograph, conversion of the γ -rays emitted from the thermal
source: AN SSSR. Izhichevskaya, V.Z., conversion electron spectrometer,
topic RGS; β -spectrograph, conversion of the γ -rays emitted from the thermal
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topic RGS; β -spectrograph, conversion of the γ -rays emitted from the thermal
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topic RGS; β -spectrograph, conversion of the γ -rays emitted from the thermal
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topic RGS; β -spectrograph, conversion of the γ -rays emitted from the thermal
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topic RGS; β -spectrograph, conversion of the γ -rays emitted from the thermal
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topic RGS; β -spectrograph, conversion of the γ -rays emitted from the thermal
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topic RGS; β -spectrograph, conversion of the γ -rays emitted from the thermal
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topic RGS; β -spectrograph, conversion of the γ -rays emitted from the thermal
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topic RGS; β -spectrograph, conversion of the γ -rays emitted from the thermal
source: AN SSSR. Izhichevskaya, V.Z., conversion electron spectrometer,
topic RGS; β -spectrograph, conversion of the γ -rays emitted from the thermal
source: AN SSSR. Izhichevskaya, V.Z., conversion electron spectrometer,

ABSTRACT: For purposes of investigation of the β -spectrometer with P.T. Prokof'yev, R.G. Latyshev, R.D. Olsina, I.I. Osina, I.L. Osina (enclosure),
developed a set-up described earlier (M.K. Balodis, 1961). The figure with diaphragms of a broad
neutron capture assembly is diagrammed in the chamber which assures focusing of a broad
neutron field assembly 1 meter. The experimental arrangement is diagrammed in the figure (enclosure).
The cassette consists of a permanent magnet, a magnetic shield, which
graph cassette.

Card 1/2

RELEASE: 07/13/2001

RDP86-00513R001343210

ACCESSION NR: AP4024048

S/0048/64/028/002/0262/0267

AUTHOR: Balodis, M.K.; Bondarenko, V.A.; Prokof'yev, P.T.

TITLE: Beta spectrograph for investigation of internal conversion electrons emitted incident to thermal neutron capture [Report, Fourteenth Annual Conference on Nuclear Spectroscopy held in Tbilisi 14 to 22 Feb. 1964]

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.2, 1964, 262-267

TOPIC TAGS: β -spectrograph, conversion electron spectrograph, thermal neutron capture, cadmium 113

ABSTRACT: For purposes of investigation of the γ -rays emitted incident to thermal neutron capture by observation of the internal conversion electrons, the authors developed a set-up assembled about the β -spectrograph with a uniform transverse magnetic field described earlier (M.K.Balodis, I.L.Osis and P.T.Prokof'yev, Radioaktivnost' izlucheniya i metody ikh issledovaniya. Tr.In-ta fiziki AN LatvSSR 135, 1961). The experimental arrangement is diagramed in the figure (Enclosure). The β -spectrograph consists of a permanent magnet, a vacuum chamber with diaphragms, a photographic cassette 70 cm long, and a magnetic shield which insures focusing of a broad

Card 1/3

ACCESSION NR: AP4024048

electron beam in the uniform transverse magnetic field. The components and design characteristics of the spectrograph are discussed at some length. For test and calibration purposes there were recorded the conversion electrons from the Cd¹¹³(n,γ)-Cd¹¹⁴ reaction and the results are presented in the form of a figure and a table. The set-up is suitable for investigation of isotopes with relatively small capture cross sections, in view of the fact that the target is located at the reactor core. "The authors express their gratitude to A.M.Demidov, member of the imeni I.V.Kurchatov Institute of Atomic Energy AN SSSR, for useful consultations in discussing the design of the system of collimators and location of the target and to members of the Institute of Physics of the Latvian SSR Academy of Sciences M.R.Beytinyu, L.Ya. Mazure, L.I.Simonova and V.A.Zalite for assistance in adjusting the spectrograph." Orig.art.has: 10 formulas, 4 figures and 1 table.

ASSOCIATION: Institut fiziki Akademii nauk LatvSSR (Institute of Physics, Academy of Sciences, Latvian SSR)

SUBMITTED: 00Jun63

DATE ACQ: 08Apr64

ENCL: 01

SUB CODE: NS, SD

NR REF Sov: 009

OTHER: 005

Card 2/3

ENCLOSURE: 01

ACCESSION NR: AP4024048

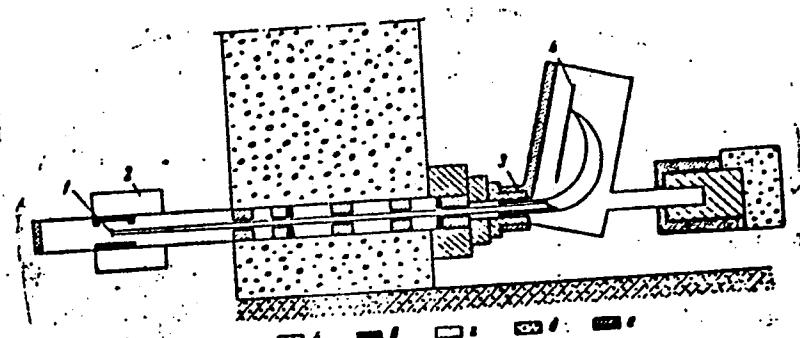


Diagram of the spectrograph insulation: 1) target, 2) reactor core, 3) magnetic shield, 4) photographic plate; a - lead, b - paraffin + H_2BO_3 , c - B_4C , d - lucite, e - concrete, f - graphite.

Card 3/3

PROKOF'YEV, P.T.

I

USSR/ Laboratory Equipment. Apparatuses, Their
Theory, Construction and Application.

Abs Jour: Referat. Zhur.-Khimiya, No. 8, 1957, 27393 D.

Author : P.T. Prokof'yev.

Inst : All-Union Scientific Research Institute of
Metrology.

Title : Magnetic Gamma-Spectrometer with Increased Aper-
ture Ratio.

Orig Pub: Avtoref. diss. kand. tekhn. n., Vses. n.-i.
in-t metrologii, L., 1956.

Abstract: no abstract.

Card 1/1

PROKOF'YEV, P.

Prokof'yev, P. "Complex mechanized removal of snow in large stations,"
Zh.-d. Transport, 1948, No. 12, pp. 51-57

SO: U-3264, 10 April 53 (Letopis 'Zhurnal 'nykh Statey, No. 4, 1949).

PROKOF'YEV, P., inzhener.

A cycle in twenty-four hours in a 260 meter longwall. Mast.ugl. 5
no.5:7-8 My '56. (MLRA 9:8)
(Donets Basin--Coal mines and mining)

PROKOF'YEV, P. inzhener

A wooden cable pulley with rubber lining. Mast. ugl. 4 no. 4:19
Ap '55. (MLRA 8:6)
(Hoisting machinery)

BAKANOV, M., PROKOF'YEV, P.

Retail Trade - Accounting

Organizing departmental accounting in stores. Eukhg. uchet. 11 no. 3, 1952.

Monthly List of Russian Accassions, Library of Congress, June 1952 Unclassified.

AFANAS'YEV, N.A.; KAPLIN, P.N.; ORGIN, S.P.; PIGOLEV, S.V.;
PROKOF'YEV, P.S.; AVRUSHCHENKO, R.A., red. izd-va;
LELYUKHIN, A.A., tekhn. red.

[Textbook for the training of volunteer fire brigades of
industrial enterprises] Posobie po pôdgotovke dobrovol'-
nykh pozharnykh druzhin promyshlennyykh predpriatii. Moskva,
Izd-vo M-va kommun.khoz.RSFSR, 1959. 232 p. (MIRA 16:7)
(Firemen--Education and training)
(Factories--Fires and fire prevention)

NIKITIN, Lev Ivanovich; PROKOF'YEV, Petr Sergeyevich; VINOGRADOV, Yevgeniy
Grigor'yevich; GORBACHEV, I.N., inzh.-polkovnik, retsenzent; FITER-
MAN, Ye.P., red. izd-va; PARAKHINA, N.L., tekhn. red.

[Fundamentals of fire prevention] Osnovy protivopozharnoi tekhniki.
Moskva, Goslesbumizdat, 1960. 310 p. (MIRA 14:6)
(Fire prevention)

ALFEROV, A.A.; ARTEMKIN, A.A.; ASHKENAZI, Ye.A.; VINOGRADOV, G.P.; GALEYEV, A.U.; GRIGOR'YEV, A.N.; D'YACHENKO, P.Ye.; ZALIT, N.N.; ZAKHAROV, P.M.; ZOBНИN, N.P.; IVANOV, I.I.; IL'IN, I.P.; KMETIK, P.I.; KUDRYASHOV, A.T.; LAPSHIN, F.A.; MOLYARCHUK, V.S.; PERTSOVSKIY, L.M.; POGODIN, A.M.; RUDOV, M.L.; SAVIN, K.D.; SIMONOV, K.S.; SITKOVSKIY, I.P.; SITNIK, M.D.; TETEREV, B.K.; TSETYRKIN, I.Ye.; TSUKANOV, P.P.; SHADIKYAN, V.S.; ADELUNG, N.N., retsenzent; AFAMAS'YEV, Ye.V., retsenzent; VLASOV, V.I., retsenzent; VOROB'YEV, I.Ye., retsenzent; VORONOV, N.M., retsenzent; GRITCHENKO, V.A., retsenzent; ZHEREBIN, M.N., retsenzent; IVLIYEV, I.V., retsenzent; KAPORTSEV, N.V., retsenzent; KOCHUROV, P.M., retsenzent; KRIVORUCHKO, N.Z., retsenzent; KUCHKO, A.P., retsenzent; LOBAOV, V.V., retsenzent; MOROZOV, A.S., retsenzent; ORLOV, S.P., retsenzent; PAVLUSHKOV, E.D., retsenzent; POPOV, A.N., retsenzent; PROKOF'YEV, P.F., retsenzent; RAKOV, V.A., retsenzent; SINEGUBOV, N.I., retsenzent; TERENIN, D.F., retsenzent; TIKHOMIROV, I.G., retsenzent; URBAN, I.V., retsenzent; FIALKOVSKIY, I.A., retsenzent; CHEPYZHES, B.F., retsenzent; SHEBYAKIN, O.S., retsenzent; SHCHERBAKOV, P.D., retsenzent; GARNYK, V.A., redaktor; LOMAGIN, N.A., redaktor; MORDVINKIN, N.A., redaktor; NAUMOV, A.N., redaktor; PODRIDIN, V.F., redaktor; RYAZANTSEV, B.S., redaktor; TVERSKOV, K.N., redaktor; CHEREVATYY, N.S., redaktor; ARSHINOV, I.M., redaktor; BABELYAN, V.B., redaktor; BERNGARD, K.A., redaktor; VERSHINSKIY, S.V., redaktor; GAMBURG, Ye.Yu., redaktor; DERIBAS, A.T., redaktor; DOMBROVSKIY, K.I., redaktor; KORNEYEV, A.I., redaktor; MIKHEYEV, A.P., redaktor

(Continued on next card)

AIFFEROV, A.A. ---- (continued) Card 2.

MOSKVIN, G.N., redaktor; RUBINSHTEYN, S.A., redaktor; TSYPIH, G.S.,
redaktor; CHERNYAVSKIY, V.Ya., redaktor; CHERNYSHEV, V.I., redaktor;
CHERNYSHEV, M.A., redaktor; SHADUR, L.A., redaktor; SHISHKIN, K.A.,
redaktor

[Railroad handbook] Spravochnaya knizhka zheleznodorozhnika, Izd.
3-e, ispr. i dop. Pod obshchey red. V.A. Garnyka. Moskva, Gos.
transp.zhel-dor. izd-vo, 1956. 1103 p. (MLRA 9:10)

1. Nauchno-tekhnicheskoye obshchestvo zheleznodorozhnogo transporta.
(Railroads)

PROKOF'YEV, P.F., inzh., otv. za vypusk; NEKLEPAYEVA, Z.A., inzh.,
red. izd-va; KHITROVA, N.A., tekhn. red.

[Technical processes in the major repair of track] Tekhnologicheskie protsessy proizvodstva rabot po kapital'nому remontu puti. Moskva, Transzheldorizdat, 1962. 327 p. (MIRA 16:2)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye puti i sooruzheniy.

(Railroads—Track)

ARUTYUNIAN, Karlen Gaykovich, inzh.; PROKOF'YEV, P.F., inzh.,
retsenzent; NEKLEPAYEVA, Z.A., inzh., red.; USENKO, L.A.,
tekhn. red.

[Mechanized laying of rail lengths; work experience of track
machinery stations] Mekhanizirovannaya ukladka rel'sovykh
platei; opyt raboty putevykh mashinnykh stantsii. Moskva,
Transzheldorizdat, 1963. 76 p. (MIRA 16:5)
(Railroads—Tracklaying machinery)

PROKOF'YEV, P.F., inzhener.

Straightening track on "heaves". Put' i put. khuz. no. 2:5-8 P '57.
(Railroads--Track) (MIRA 10:4)

PROKOF'IEV, P.F., redaktor; VERINA, G.P., tekhnicheskij redaktor.

[Technological processes in the reconstruction and capital repair of tracks] Tekhnologicheskie protsessy po rekonstruktsii i kapital'nому remontu puti. Moskva. Gos.transp.zhel-dor.izd-vo, 1955. 250 p. (MIRA 9:1)

1.Russia (1923- U.S.S.R.) Glavnoye upravleniye puti i sooruzheniy. (Railroads--Track)

PROKOP'YEV, P. N.

32595

S/137/61/CCO/011/CO9/123
A060/A101

181200 1530 1418

AUTHORS: Adakhovskiy, A. P., Gordov, A. N., Lapp, G. B., Lebedeva, Z. S., Maksimova, V. I., Omel'chenko, G. F., Prokop'yev, P. N., Ergardt, N. N.

TITLE: Investigation of new types of thermocouples for measuring temperatures up to 1,800°C

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1961, 12, abstract 11B71 ("Tr. in-tov Kem-ta standartov, mer i izmerit. priborov pri Sov. Min. SSSR", 1960, no. 42 (102), 29 - 38)

TEXT: An investigation was carried out upon thermocouples from alloys of Pt and Rh, containing 1, 6, 10, 13, 20, 30, and 40 % Rh. The influence of the refractory materials used for reinforcing the thermocouples was clarified. The least influence upon the thermoelectric characteristics of Pt-Rh alloys was exerted by oxides of Th, Be, and Al. Zr oxide has a strong influence. As the diameter of thermoelectrodes increases, the influence of the material is reduced. The influence of the refractory ceramic at high temperatures is reduced as the Rh content in the alloy is raised. The greatest stability is demonstrated by

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32595

6/137/01/ccc/311/cos/123

A269/A101

Investigation of new types of thermocouples ...

thermocouples of HP 30/6 (PR 30/6). Under repeated measurements of the temperature of liquid steel by means of them, and without rewiring the working junction, their characteristic showed almost no change. The thermocouples HP 100/20 (PR 100/20) were withdrawn from testing because of their excessive fragility, even though their readings remained practically constant.

G. Glinsky

[Abstracter's note: Complete translation]

Card 2/2

AFANAS'YEV, Nikolay Arsent'yevich; VERESKUNOV, Vadim Konstantinovich;
PROKOF'YEV, Petr Sergeyevich; MIKEYEV, A.K., red.

[Fire safety of industrial enterprises] Pozharnaya bezopas-
nost' promyshlennyykh predpriiatii. Moskva, Izd-vo MKKH RSFSR,
1963. 245 p.
(MIRA 17:5)

PROKOF'YEV, P.S.; CHEBOTAREV, V.P.; ZLATOVEROV, B.S., red.; TRUSOV,
N.S., tekhn. red.

[Fire prevention in local industrial enterprises] Pozharnaia
bezopasnost' predpriatii promyshlennosti mestnogo podchini-
nia. Moskva, Gosbytizdat, 1963. 184 p. (MIRA 17:4)

PROKOFYEV, P. T.

PROKOFYEV, P. T. -- "A Magnetic Gamma-spectrometer with Increased Illuminating Power." Committee on Standards, Measures, and Measuring Devices under the Council of Ministers USSR, All-Union Sci Res Institute of Metrology imeni D. I. Mendeleev, Leningrad, 1956. (Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis' No 43, October 1956, Moscow

PROKOF'YEV, P. F.

21(3) SOV/112-59-3-5251

Translation from: Referativnyj zhurnal. Elektronika, 1959, Nr. 3, p. 135 (USSR)

AUTHOR: Aglincev, K. K., Balon, Z. P., Dzhelapov, B. S., Karayev, F. M., Karayev, A. S., Konstantinov, A. A., Ostromikhova, G. P., Protovarov, P. V., Rustinova, S. A., Sumbayev, O. I., Kholmova, Ye. A., Sestopalova, S. A., Yudin, M. F., and Yartseva, I. A.

TITLE: Metrology of Penetrating Radiations (Metrologiya promyshlennicheskikh izlucheniij)

PERIODICAL: V sb.: Atomn. energiya v mirnykh i etiakh. Gosenergolizdat, 1957, pp. 145-181.

ABSTRACT: Projects are described for the Vsesoyuznyj nauchno-issledovatel'skiy Institut metrologii (All-Union Scientific Research Metrology Institute) Invent D. I. Mendelyev on standardization of measures in the ionizing-radiation field, and on the construction of standard and reference outfit for reproducing the fundamental units in the whole range of energies and intensities of radiations of all types. The following outfit are described: (1) a standard reproducing

Card 1/3

concerning on a measuring radiation

the roentgen in the range of 40-300 KeV; (2) a reference outfit for measuring in roentgens of electromagnetic-radiation doses having the quantum energy of 300-1,500 KeV; (3) an outfit for measuring in roentgen the electromagnetic-radiation doses with quantum energy of 3-20 KeV with an error of 1%; (4) two standard outfit for measuring radium gamma-equivalents; (5) differential lead-ball gamma-calorimeters for measuring the activity of various preparations on the basis of their gamma radiation; (6) an isothermal calorimeter operating on the principle of liquid-nitrogen evaporation for measuring the activity of beta preparations; (7) a differential alpha calorimeter for measuring the activity of radium preparations. An activity-measurement method by counting the number of particles emitted by a preparation is being developed in two directions: counting of particles in a definite solid angle and the same in the total solid angle by means of beta-counters. The beta-particle counter within a definite angle permits measurement with an activity of 10^{-6} - 10^{-5} curie with an error of 4-6%. Two alternate designs of "ap-

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SOV/112-59-3-5251

Metrology of Penetrating Radiations

"condensers" are described. One of them permits measuring beta preparations with an activity of 10^{-10} - 5×10^{-9} curie with an error of 2-4%, and the second, 5×10^{-11} - 5×10^{-7} curie with an error of 1-3%. The outfit have been built for measuring neutron streams from 10⁶ down to a few wre of neutrons per sec. A gamma-spectrometer "Eistor" is also proposed for use with an error of 2-4%. The outfit have been built for investigation of gamma-radiation energy range of 200-1,000 KeV. To conduct investigations in the range of 200-700 KeV, a 2-meter "Torycrystal" diffracting gamma spectrometer of the Demchuk type has been built. Also, a magnetic spectrometer with activated phenolic resin has been built for the range of 200-700 KeV. Measuring the half-life from a few hours to a few years is made by two methods: the method of successive measurements of gamma equivalents of preparation and the differential-chamber method. The results of radioactive measurements for a number of spectra are tabulated

N. G. Z.

Card 3/3

AUTHOR:

PROKOF'YEV, P.T.

PA - 2523

TITLE:

The Magnet-Gamma Spectrometer with Increased Power. (Magnitnyy
gamma-spektrometr s povyshennoy svetosiloy, Russian)

PERIODICAL:

Latvijas PSR Zinatnu Akad. Vestis, 1957, Vol 1, Nr 1(114, pp 137-
148 (U.S.S.R.)

Received: 5 / 1957

Reviewed: 7 / 1957

ABSTRACT:

A spectrometer for gamma radiation of the soft spectral range
(of from 200 to 700 keV) was computed and constructed, by which the
characteristic angular distribution of the photoelectrons is
utilized in the best possible manner. The construction of the
apparatus is based upon the new idea of using a "ring"-magnetic field
for the purpose of obtaining greater power. Within the energy domain
mentioned the device offers the possibility of obtaining the spectra
of gamma radiation by means of photoelectrons with a reactivity of
4% and a power of 23-25%. It is shown that a device the power of
which is somewhat lower is able to obtain spectra also of conversion
electrons. With the aid of the spectrometer constructed gamma ray
spectra were recorded by means of photoelectrons Cs¹³⁷, Hg²⁰³, Ir¹⁹²,
and conversion electrons Cs¹³⁷ and ThB. The spectra were used for
the graduation of the device according to energies and relative

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The Magnet-Gamma Spectrometer with Increased Power.

PA - 2523

intensities. Experiments were carried out which showed that the spectrometer can successfully be used for the determination of the coefficients of interior conversion of gamma rays by direct measurement of the number of conversion- and photoelectrons. (11 Illustrations and 2 Citations from Slav Publications).

ASSOCIATION: Physical Institute of the Latvian Academy of Science.
PRESENTED BY:
SUBMITTED:
AVAILABLE: Library of Congress

Card 2/2

28(3) 24,6810

69185

S/115/60/000/03/018/031
D002/D002

AUTHOR: Karamyan, A.S. (Deceased), Prokof'yev, P.T.
TITLE: A Magnetic Gamma-Spectrometer With an "Annular" Field
PERIODICAL: Izmeritel'naya tekhnika, 1960, Nr 3, pp 39-41 (USSR)

ABSTRACT: A detailed description is given of a new magnetic gamma-spectrometer for investigating the gamma-ray spectrum in the energy range of 200-700 kiloelectron-volts, with a recording system consisting of two Geiger-Mueller counters. Electrons knocked out of the target travel at large angles towards the gamma quanta, and get into the magnetic field in which they proceed along an arc of 20 cm radius and then along the tangent to the counters. The spectrometer is illustrated in a diagram (Figure 1). Comparison is made with spectrometers having a "flat" field [Ref 1-4]. Calculations and experiments with an analogous instrument (yet not identical with the described), were treated previously [Ref 5,6 foreign]. There are

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69185

S/115/60/000/03/018/031
D002/D002

A Magnetic Gamma-Spectrometer With an "Annular" Field

1 diagram, 3 graphs and 6 references, 2 of which
are Russian and 4 Western European.

✓

Card 2/2

BONDARENKO, V.A.; PROKOF'YEV, P.T.; SIMONOVA, L.I.

Analysis of the scheme of levels in Dy¹⁶⁵ based on the spectrum
of conversion electrons emitted in the capture of thermal neutrons.
Izv. AN SSSR. Ser. fiz. 29 no.12:2168-2172 D '65.

(MIRA 19:1)

L 09231-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JG
ACC NR: AP7002798 SOURCE CODE: UR/0048/66/030/008/1330/ 1333

AUTHOR: Balodis, M. K; Peker, L. K; Prokof'yev, P. T. 28

ORG: All-Union Scientific Research Institute of Metrology im. D. I. Mendeleyev
(Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii); Institute of Physics,
AN LatSSR (Institut fiziki AN LatSSR)

TITLE: Collective gyromagnetic ratio g_R of odd-odd nuclei. Magnetic and
electrical properties of $\text{sub } 69 \text{ Tu sup } 170 \text{ sub } 101$ 19

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 8, 1966, 1330-1333

TOPIC TAGS: nucleon, thulium 21

ABSTRACT: It is shown that, owing to random circumstances, the gyromagnetic ratios g_R and g_K , conditioned by the collective movement of the nucleus and movement of unpaired nucleons, can also be determined for the configuration $p\frac{1}{2}t\frac{3}{2}U,n\frac{1}{2}-[S2]$, corresponding to the fundamental state of $^{60}\text{Tu}^{170}_{101}$ with $I^\pi=K^\pi=1^-$. In this case, $g_R \approx +0.247 \approx g_K$. It is further shown that from the experimental findings on the electric quadrupole moment Q ($Q = +0.574 \pm 0.009$ barn) and relative intensities of γ_{114} and γ_{75} for Tu^{170} it is possible to estimate the effect of the cross-over matrix element of the operator of Q , which is found to be relatively small but sufficient to reduce the electric quadrupole moment Q by 10-20%. Orig. art. has: 1 figure, 10 formulas and 1 table. (JPRS: 39,040)

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 014

Card 1/1 mle

0925 1686

L 34978-66 EWT(l)/EWT(m)/EWP(t)/ETI IJP(c) AT/JD/JG

ACC NR: AP6017587

SOURCE CODE: UR/0367/66/003/002/0193/0198

AUTHOR: Bondarenko, V. A.; Prokof'yev, P. T.; Simonova, L. I.

ORG: Institute of Physics, Academy of Sciences, Latvian SSR (Institut fiziki Akademii nauk Latviyskoy SSR)

TITLE: Spectra of internal conversion electrons in capture of thermal neutrons by gold ✓

SOURCE: Yadernaya fizika, v. 3, no. 2, 1966, 193-198

TOPIC TAGS: gold, conversion electron spectrum, neutron capture, Beta spectroscopy, Gamma transition

ABSTRACT: The spectrum of conversion electrons emitted when thermal neutrons are captured by Au¹⁹⁷ nuclei was investigated with a β spectrograph, described by the authors earlier (Izv. AN SSSR, seriya fiz. v. 28, 262, 1964), with a resolution 0.15 - 0.3% in the energy interval 30 - 500 kev. The target was a gold foil 0.4 mg/cm² thick. Most of the spectral lines were identified with appreciable reliability by comparing the intensities of the γ rays and the conversion-electron lines. The reference lines chosen were the electronic lines ascribed to the strong γ transitions with 55.19, 168.26, 192.42, 214.89, 247.42, and 261.26 kev energy. Some difficulties arose in the identification of certain lines, making it necessary to check on the possible presence of lines from other isotopes. The results have shown that most strong transitions in the energy interval 55 - 300 kev have a multipolarity M1. A

Card 1/2

L 34978-66

ACC NR: AP6017587

table listing the conversion-electron and γ -transition energies, conversion coefficients, and multipole transitions in Au¹⁹⁸ is presented. The low-lying excited levels of Au¹⁹⁸ are discussed and according to the present data the first-excited level (55.19 kev above the ground state) is de-excited by a mixed type transition ($M1/E2 = 15 \pm 3$), the total transition intensity estimated at ~70%. The next three levels (192.42, 235.95, and 261.26 kev) have likewise transition intensities which appear to be excessively high (~120%). Orig. art. has: 1 table.

SUB CODE: 20/ SUBM DATE: 07Jun65/ ORIG REF: 004/ OTH REF: 001

Card 2/2 JS

L 36376-66 EWT(m)

ACC NR: AP6017588

SOURCE CODE: UR/0367/66/003/002/0199/0208

AUTHOR: Balodis, M. K.; Kramer, N. D.; Prokof'yev, P. T.; Fayner, U. M.

ORG: Institute of Physics, Academy of Sciences Latvian SSR (Institut fiziki Akademii nauk Latviyskoy SSR)

TITLE: Multipolarities of the lower transitions in the $\text{Lu}^{176}(n,\gamma)\text{Lu}^{177}$ reaction

SOURCE: Yadernaya fizika, v. 3, no. 2, 1966, 199-208

TOPIC TAGS: lutetium, neutron interaction, gamma interaction, deformed nucleus, conversion electron spectrum, multipole order, nuclear spin, nuclear energy level

ABSTRACT: In view of the interest attaching to the level scheme of the Lu^{177} nucleus in connection with studies of the lower levels of odd deformed nuclei, the authors have investigated the spectrum of the conversion electrons emitted when Lu^{176} nuclei capture thermal neutrons. A magnetic beta spectrometer was used in the energy range 30 - 450 kev, described by the authors earlier (Izv. AN SSSR seriya fiz. v. 28, 262, 1964). The electrons were recorded with photographic emulsions. The coefficients of internal conversion and the multipolarities of the transitions were determined from the relative intensities of the conversion electrons and gamma rays, and a table listing the internal conversion lines is presented. The results show that the decay scheme of Lu^{177} consists of three rotational bands. The multipolarities of transitions between levels with spin difference $\Delta I = 1$ within each band is of the mixed $M1 + E2$ type, while transitions with $\Delta I = 2$ have multipolarity $E2$. Certain levels ob-

Card 1/2

L 36376-66

ACC NR: AP6017588

served by other investigators do not fit within the proposed level scheme and the reasons for the discrepancies are discussed. Orig. art. has: 1 figure and 2 tables.

SUB CODE: 20/ SUBM DATE: 07Jun65/ ORIG REF: 002/ OTH REF: 010

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Card 2/2

L 2733-66 EWT(m)/EWP(t)/EWP(b)/EWA(h) IJP(c)
ACCESSION NR: AP5024333 JD/JG

UR/0367/65/002/002/0238/0238

AUTHOR: Balodis, M. K.; Prokof'yev, P. T.; Simonova, L. I.

TITLE: Conversion electrons emitted in the $Tu^{169}(n, \gamma) Tu^{170}$ reaction

SOURCE: Yadernaya fizika, v. 2, no. 2, 1965, 236-238

TOPIC TAGS: Thulium, nuclear reaction, thermal neutron, ytterbium, conversion electron spectrum

ABSTRACT: The authors describe the spectrum of internal conversion electrons emitted during the capture of thermal neutrons in the $Tu^{169}(n, \gamma) Tu^{170}$ reaction. A β -spectrograph was used for studying the conversion electron spectrum with the target located in the tangential channel of the reactor where the neutron flux was $3 \cdot 10^{12}$ neutrons/cm²·sec. Measurement accuracy for strong lines was 20% and for weak lines--50%. A Tu_2O_3 target was used. The results are tabulated. It is found that the ground states of Tu^{169} and Yb^{171} are the $\frac{1}{2}^-[411]$ proton level and the $\frac{1}{2}^+[521]$ neutron level respectively. It is believed that the Tu^{170} ground state has the characteristic 1^- , while the characteristic of the low-lying excited state is 0^+ . Ytterbium has a low-lying $\frac{5}{2}^-[512]$ neutron state, therefore 2^- and 3^- states are

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L 2733-66

ACCESSION NR: AP5024333

expected in the Tu^{170} nucleus. Each of these internal states is associated with a rotational band. The moment of inertia for this band can be calculated by taking account of the moments of inertia for the corresponding states in neighboring nuclei. If the 2.2⁻ level is sufficiently populated, there should be transitions from this level to the 1.1⁻, 1.2⁻ and 1.3⁻ levels. These transitions were not observed which indicates either that the 2.2⁻ level is insufficiently populated or that the energy of the 1.2⁻ and 1.3⁻ levels does not comply with the assumptions made by the authors. Orig. art. has: 2 tables.

ASSOCIATION: Institut fiziki Akademii nauk Latviyskoy SSR (Institute of Physics,
Academy of Sciences, Latvian SSR)

SUBMITTED: 15Mar65

ENCL: 00

SUB CODE: NP

NO REF Sov: 004

OTHER: 003

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Card 3/2

L 45191-65 EWT(n)/EWP(t)/EWP(b)/EWA(h) IJP(c) JD -

ACCESSION NR: AP5009828

UR/0367/65/001/002/0250/0251

AUTHORS: Balodis, M. K.; Bondarenko, V. A.; Prokof'yev, P. T.; 16
Simonova, L. I. 15

B

TITLE: Spectrum of internal-conversion electrons produced upon
capture of thermal neutrons by indium 19 21

SOURCE: Yadernaya fizika, v. 1, no. 2, 1965, 250-251

TOPIC TAGS: indium, conversion electron spectrum, thermal neutron
capture, beta spectrometry, gamma transition, internal conversion
coefficient

ABSTRACT: The spectrum of the internal-conversion electrons pro-
duced upon capture of thermal neutrons by indium was plotted in the
100-600 keV energy range with a resolution of 0.1-0.5% 10

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ACCESSION NR: AP5009828

plate with R-50 emulsion took 1.5 hours at a reactor power of 1500 kw (5×10^{12} neut/sec-cm 2). Conversion lines were observed, corresponding to gamma transitions at 60.7, 85.5, 96.1, 115.0, 126.5, 141.2, 155.6, 162.3, 171.0, 173.4, 186.2, 203.4, 234.8, 271.5, 284, 289, 335, and 384 keV. The internal conversion coefficients were estimated for some of the transitions. The ratio of the cross section for isomer production was estimated from the intensity ratio of the 138.5 and 415 keV conversion lines in Sn 116 and found to equal 0.8 ± 0.4 . Orig. art. has: 1 table.

ASSOCIATION: Institut fiziki Akademii nauk Latviyskoy SSR (Institute of Physics, Academy of Sciences, Latvian SSR)

SUBMITTED: 24Jul64

ENCL: 00

SUB CODE: NP

NR REF SOV: 002

OTHER: 007

b7c APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343210010-6
Card 2/2

BALONIS, M. K.; BONDARENKO, V. A.; PROKOF'YEV, P. T.; SIMONOVA, L. I.

"The Spectrum of Electrons of Internal Conversion of In¹¹⁶ Following Capture
of Thermal Neutrons."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22
Feb 64.

IF AS LatvSSR (Inst Physics, AS LatvSSR)

S/798/61/000/000/012/012

AUTHORS: Balodis, M.K., Osis, N.L., Prokof'yev, P.T.

TITLE: A beta-spectrograph with a permanent magnet.

SOURCE: Radioaktivnyye izlucheniya i metody ikh issledovaniya.
Inst. fiz. AN LatvSSR. Riga, Izd-vo AN LatvSSR, 1961, 135-141.

TEXT: This paper describes the construction of a β -spectrometer with a permanent magnet for the measurement of conversion electrons, that is, for the study of the spectra of the internal-conversion electrons of γ -rays, which affords one of the most practicable methods for the accurate determination of the quantum characteristics of the excitation levels of atomic nuclei by means of a spectrometer equipped with a transverse magnetic field. The yoke of the magnet is rectangular (h 145 cm, w 60 cm, l 59 cm). The polar tips are 100x60 cm², each consisting of 2 plates 7.0 cm thick. The magnets are arranged between the polar tips and the yoke. The yoke and the tips are made of Cr-3 (St-3) steel, the magnets of AlNiCo-5. The air gap between the polar tips was chosen at a minimal 10 cm. To achieve geometric and "magnetic" parallelism, two St-2 steel plates 100x60x1.9 cm³ were introduced, one of which is pressed flush against the polar tip, while the other leaves a narrow air gap of 0.6 cm between itself and the tip to allow for shimming

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A beta-spectrograph with a permanent magnet.

S/798/61/000/008/012/012

in the adjustment of the magnetic field. A magnetic field strength of 80 to 300 oersted is needed for the investigation of 0.06- to 3.5-mev conversion electrons. To achieve that field strength, 50 magnets, each 6.51 cm long, were set up alongside each polar tip. Two magnetizing coils, with a total of 1,000 windings, were employed in the instrument. Upon completion of the assemblage and magnetization, the magnetic field strength (MFS) in the gap must be insensitive to impacts, vibration, external magnetic fields, and temperature variations. "Stabilization" was achieved by applying a weak pulsating field of opposite polarity and by placing the magnet into a +5°C thermostat. The permissible fluctuations of the MFS were limited by the required resolution of the instrument (10^{-3} to 10^{-4}) in the investigation of the conversion electrons in the K-shell and the L-subshells. It was therefore measured by the most accurate nuclear-resonance method, in which the measurement of the field was reduced to a measurement of the frequency of a HF generator. Accuracy and signal-to-noise-ratio requirements dictated the size of the sensor (filler volume 0.11 cm^3). A 200-oersted field was measured with a nuclear magnetometer (block scheme shown) with an accuracy of 0.02%. Uniformity of the magnetic field was achieved by magnetic-polarity reversal (nonuniformity reduced to $\pm 0.15\%$) and by shimming with 0.2 - 0.5-mm shim strips which raised the edges relative to the center (non-uniformity reduced to ± 0.05 -0.08% over a $90 \times 50 \text{-cm}^2$ area). Parameters of the measuring chamber: The radius of the trajectories of the electrons had a maximum

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A beta-spectrograph with a permanent magnet.

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value of 45 cm, a minimum of 11 cm. The maximum angular width of the beam in the plane of the magnetic field (MF) $\psi = 0.007$ rad, in a plane perpendicular thereto $\phi = 0.029$ rad. The source holder consisted of an activated wire or band held by a brass support and placed in a readily insertable and removable cup with a slotted diaphragm (slit 2 mm wide) to limit the electron-capture angle. The source itself was an Al or Au foil, $0.5 \times 0.03 \text{ mm}^2$ and $0.5 \times 0.05 \text{ mm}^2$, carrying the radioactive preparation. The length of the source was 20 mm, the distance from the source to the diaphragm - 34 mm. Details of the photographic plate holder are described. Verification of the accuracy of the instrument was obtained by a record of the conversion-electron spectrum of Cs137, wherein the intensity of the lines was determined from the blackening of the P-50 (R-50) photoemulsion, and also by counting the electron tracks on the emulsion. The ratios found, K:L:M = $(5.0 \pm 0.3):1.0:(0.24 \pm 0.06)$, agreed well with the data of I.A. Antonova (Akad.n.SSSR, Izv., ser. fiz., v.20, no.8, 1956, 896; ZhTF, v.30, no.3, 1956, 571). There are 5 figures and 5 references (3 Russian-language Soviet papers, 2 English-language papers: Slatis, K., Arkiv för Fysik, v.6, no.5, 1953, 415; Mladjenović, M.S., Institute of Nuclear Sciences "Boris Kidrich," Bull., v.6, 1956, 51).

ASSOCIATION: None given.

Card 3/3

PELEKIS, L.L., kand. fiz.-mat. nauk, otv. red.; PROKOF'YEV, P.T.,
kand. tekhn. nauk, red.; CHUDAR, Ya.E., kand. fiz.-mat. nauk,
red.; YANUSHKOVSKIY, V.A., red.; TEITELBAUM, A.[Teitelbaum, A.],
red.; BOKMAN, R., tekhn. red.

[Methods for studying radioactive radiation] Radioaktivnye izlu-
cheniya i metody ikh issledovaniia. Riga, Izd-vo Akad. nauk
Latviiiskoi SSR, 1961. 141 p.
(MIRA 15:4)

1. Latvijas Padomju Socialistiskas Republikas Zinatnu Akademija.
Fizikas instituts.
(Radioactivity)

YANUSHKOVSKIY, Vladimir Aleksandrovich; SHUMILOVSKIY, N.N., prof.,
doktor tekhn. nauk, red.; TAKSAR, I.M., kand. fiz.-mat. nauk,
red.; PROKOF'YEV, P.T., kand. fiz.-mat. nauk, red.; PELEKIS,
L.L., red.; LEVI, S., red.; BOKMAN, R., tekhn. red.

[Use of radioactive radiation in industry] Primenenie radio-
aktivnykh izluchenii v promyshlennosti. Riga, Izd-vo Akad.
nauk Latviiiskoi SSR, 1957. 104 p. (MIRA 15:2)
(Radioactivity--Industrial applications)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001343210010-6

PROKOF'YEV, S.

Siberian hardening. Kryl. rod. 16 no.7:10-11 Jl '65.
(MIRA 18:3)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001343210010-6"

PROKOF'YEV S.

85-9-17 /33

AUTHORS: Prokof'yev S., (text) Vdovenko B., (photos)

TITLE: A Visit to the Promoters of the All-Union Competition of Aerolubs (Uchitsiatorov sorevnovaniya aeroklubov)

PERIODICAL: Krylya Rodiny 1957, Nr 9, inserted colored sheet between pp. 16-17 (USSR)

ABSTRACT: 22 photos of the members of the Serpukhovskoy aeroclub at their routine exercises, showing also some of the material equipment of the aeroclub. The text accompanying the photos offers brief and fragmentary information on the members represented in the photos and comments on their activities. Stressed are: the strict discipline maintained at the aeroclub by its head S.M. Nefedov; the importance the members of the club attach to the sports as a means of developing their physical condition ; and the fact that the members of the aeroclub participate actively in the political work (obshchestvennaya rabota).

AVAILABLE: Library of Congress
Card 1/1

PROKOF'YEV, S. (Serpukhov)

Communist Youth League member Nikolai Gogin. Kryl.rod. 8 no.1:19
(MLRA 10:5)

Ja '57.

(Gogin, Nikolai)

AID P - 5553

Subject : USSR/Propaganda

Card 1/1 Pub. 58 - 12/20

Author : Prokof'yev, S.

Title : Nikolay Gogin, Member of the Young Communists League

Periodical : Kryl. rod., 1, 19, Ja 1957

Abstract : The author narrates the activities of a member of the Young Communists League in an unnamed aeroclub, and criticizes some aspects of the organization of the training there. 1 photo.

Institution : None

Submitted : No date

PROKOF'YEV, S.; KOBYZEV, N.

Cheaters should not be in an aviators club. Kryl.rod. 12 no.10:
30 0 '61. (MIRA 15:2)
(Aeronautical societies)

AID P - 4712

Subject : USSR/Aeronautics - Maintenance
Card 1/1 Pub. 58 - 7/14
Author : Prokof'yev, S.
Title : It is Necessary to Know how to Maintain the Aircraft Equipment.
Periodical : Kryl. rod., 6, 12, Je 1956
Abstract : Some practical advices as to the best ways of maintaining various parts of the aircraft equipment in working order. No technical details of interest.
Institution : None
Submitted : No date

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001343210010-6

PROKOF'YEV, S.

Good signs. Kryl. rod. 15 no. 724 Jl 164.

(MIRA 18:1)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001343210010-6"

KONDRASHEV, Denis Dmitriyevich, doktor ekonom.nauk; PROKOF'YEV, S., red.;
MOSKVIHA, R., tekhn.red.

[Prices and business accounting] TSena i khoziaistvennyi raschet.
Moskva, Izd-vo sotsial'no-ekon.lit-ry, 1961. 110 p.
(MIRA 14:3)

(Economics)

(Prices)